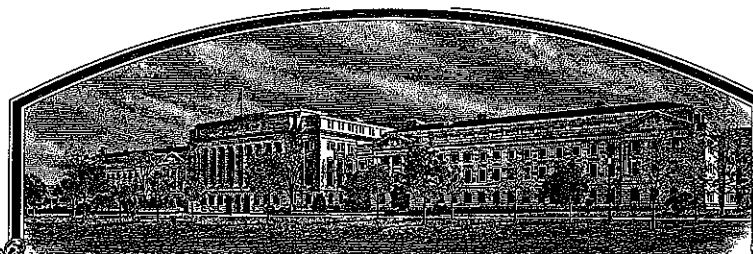


No.

200600145



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Monsanto Technology LLC

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

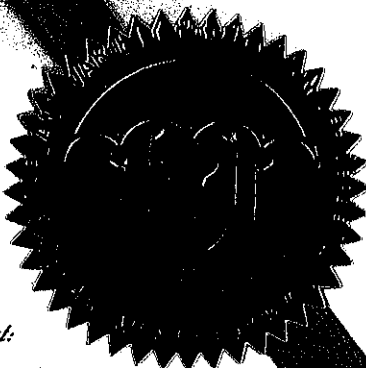
NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR PROPAGATING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE FOREGOING PURPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

CORN, FIELD

'1512243'

In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C. this twenty-fifth day of November, in the year two thousand and eight.

Attest:



[Signature]
Commissioner
Plant Variety Protection Office
Agricultural Marketing Service


[Signature]
Secretary of Agriculture

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE
(Instructions and information collection burden statement on reverse)

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF OWNER Monsanto Technology L.L.C.		2. TEMPORARY DESIGNATION OR EXPERIMENTAL NAME None		3. VARIETY NAME 1512243	
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country) 800 N. Lindbergh Blvd. Creve Coeur, MO 63167 U.S.A.		5. TELEPHONE (include area code) (815) 758-9281		FOR OFFICIAL USE ONLY PVPO NUMBER 2006 00 145 FILING DATE March 2, 2006	
		6. FAX (include area code) (815) 758-3117			
7. IF THE OWNER NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION (corporation, partnership, association, etc.) Corporation		8. IF INCORPORATED, GIVE STATE OF INCORPORATION Delaware		9. DATE OF INCORPORATION August 27, 1999	
10. NAME AND ADDRESS OF OWNER REPRESENTATIVE(S) TO SERVE IN THIS APPLICATION. (First person listed will receive all papers)				FILING AND EXAMINATION FEES: \$ 4382.00 DATE 3/2/06 CERTIFICATION FEE: \$ 768.00 DATE 10/27/08	
Timothy R. Kain 8350 Minnegan Road Waterman, IL 60556 U.S.A. Michael J. Roth 800 N. Lindbergh Blvd. Creve Coeur, MO 63167 U.S.A.					
11. TELEPHONE (include area code) (815) 758-9281		12. FAX (include area code) (815) 758-3117		13. E-MAIL trkain@monsanto.com	
14. CROP KIND (Common Name) Corn, Field		15. GENUS AND SPECIES NAME OF CROP Zea mays			
16. FAMILY NAME (Botanical) Graminae		17. IS THE VARIETY A FIRST GENERATION HYBRID? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			
18. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on reverse)		19. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE SOLD AS A CLASS OF CERTIFIED SEED? See Section 83(a) of the Plant Variety Protection Act			
a. <input checked="" type="checkbox"/> Exhibit A. Origin and Breeding History of the Variety b. <input checked="" type="checkbox"/> Exhibit B. Statement of Distinctness c. <input checked="" type="checkbox"/> Exhibit C. Objective Description of Variety d. <input type="checkbox"/> Exhibit D. Additional Description of the Variety (Optional) e. <input checked="" type="checkbox"/> Exhibit E. Statement of the Basis of the Owner's Ownership f. <input checked="" type="checkbox"/> Voucher Sample (2,500 viable untreated seeds or, for tuber propagated varieties, verification that tissue culture will be deposited and maintained in an approved public repository) g. <input checked="" type="checkbox"/> Filing and Examination Fee (\$3,652), made payable to "Treasurer of the United States" (Mail to the Plant Variety Protection Office)		<input type="checkbox"/> YES (If "yes", answer items 20 and 21 below) <input checked="" type="checkbox"/> NO (If "no", go to item 22) 20. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF CLASSES? <input type="checkbox"/> YES <input type="checkbox"/> NO IF YES, WHICH CLASSES? <input type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED 21. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS? <input type="checkbox"/> YES <input type="checkbox"/> NO IF YES, SPECIFY THE NUMBER 1,2,3, etc. FOR EACH CLASS. <input type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED (If additional explanation is necessary, please use the space indicated on the reverse.)			
22. HAS THE VARIETY (INCLUDING ANY HARVESTED MATERIAL) OR A HYBRID PRODUCED FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRANSFERRED, OR USED IN THE U. S. OR OTHER COUNTRIES? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOSITION, TRANSFER, OR USE FOR EACH COUNTRY AND THE CIRCUMSTANCES. (Please use space indicated on reverse.)		23. IS THE VARIETY OR ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUAL PROPERTY RIGHT (PLANT BREEDER'S RIGHT OR PATENT)? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, PLEASE GIVE COUNTRY, DATE OF FILING OR ISSUANCE AND ASSIGNED REFERENCE NUMBER. (Please use space indicated on reverse.)			
24. The owners declare that a viable sample of basic seed of the variety has been furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate. The undersigned owner(s) is(are) the owner of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act. Owner(s) is(are) informed that false representation herein can jeopardize protection and result in penalties.					
SIGNATURE OF OWNER 		SIGNATURE OF OWNER			
NAME (Please print or type) Timothy R. Kain		NAME (Please print or type)			
CAPACITY OR TITLE Patent Scientist		DATE 2/28/06		CAPACITY OR TITLE DATE	

GENERAL: To be effectively filed with the Plant Variety Protection Office (PVPO), **ALL** of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E; (3) for a seed reproduced variety at least 2,500 viable untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to reproduce the variety, or for tuber reproduced varieties verification that a viable (*in the sense that it will reproduce an entire plant*) tissue culture will be deposited and maintained in an approved public repository; (4) check drawn on a U.S. bank for \$3,652 (\$432 filing fee and \$3,220 examination fee), payable to "Treasurer of the United States" (*See Section 97.6 of the Regulations and Rules of Practice.*) Partial applications will be held in the PVPO for not more than 90 days, then returned to the applicant as unfilled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 401, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. **DO NOT** use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$432 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

Plant Variety Protection Office

Telephone: (301) 504-5518

FAX: (301) 504-5291

Homepage: <http://www.ams.usda.gov/science/pvpo/pvp.htm>

ITEM

- 18a. Give: (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method; (2) the details of subsequent stages of selection and multiplication; (3) evidence of uniformity and stability; and (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 18b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
- (1) identify these varieties and state all differences objectively;
 - (2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences; and
 - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 18c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 18d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 18e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
19. If "Yes" is specified (*seed of this variety be sold by variety name only, as a class of certified seed*), the applicant **MAY NOT** reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (*See Regulations and Rules of Practice, Section 97.103.*)
22. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
23. See Section 55 of the Act for instructions on claiming the benefit of an earlier filing date.

21. CONTINUED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)

22. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)

Parent of a hybrid sold in the U.S. – April 2005

23. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)

U.S. Patent Application No. 11/093,744 – filed March 30, 2005 (I512243)

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. There is no charge for filing a change of address. The fee for filing a change of ownership or assignment or any modification of owner's name is specified in Section 97.175 of the regulations. (*See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.*)

To avoid conflict with other variety names in use, the applicant must check the appropriate recognized authority. For example, for agricultural and vegetable crops, contact: Seed Branch, AMS, USDA, Room 213, Building 306, Beltsville Agricultural Research Center--East, Beltsville, MD 20705. Telephone: (301) 504-8089. <http://www.ams.usda.gov/lsg/seed.htm>

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 3.0 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, sexual orientation, marital or family status, political beliefs, parental status, or protected genetic information. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call 202-720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

ST-470 (02-10-2003) designed by the Plant Variety Protection Office with Word 2000. Replaces former versions of ST-470, which are obsolete.

EXHIBIT AOrigin and Breeding History
I512243

I512243 was selected for its improved grain yield, shorter plant height, greater plant health, improved Southern rust tolerance and greater combining ability.

Summer 1994	The inbred line 286D184C* (a proprietary DEKALB Genetics Corporation inbred) was crossed to the inbred line SNBM (a proprietary DEKALB Genetics Corporation inbred) in nursery rows 94:1127 and 91:1071.
Winter 1994-95	The S0 seed was grown and crossed to inbred line MM501D (a proprietary DEKALB Genetics Corporation inbred) in nursery row 94FL: 1530 and 94FL: 1529.
Summer 1995	The S1 seed was grown and self-pollinated in the summer nursery rows and designated as family 95:132. 25 ears were selected.
Summer 1996	S2 ears were grown ear-to-row and self-pollinated. 2 ears were selected in nursery row 96:20100.
Winter 1996-97	S3 ears were grown ear-to-row and self-pollinated in nursery row 96FL: 285. 1 ear was selected.
Winter 1997-98	S4 ear was grown ear-to-row and self-pollinated in nursery row 97FL: 834. 1 ear was selected.
Winter 1998-99	S5 ear was grown ear-to-row and self-pollinated in nursery row 98FL: 225. 1 ear was selected and designated as I512243.
Winter 1999-00	S6 ear was grown ear-to-row and self-pollinated in row 99PR: 1091 and 99PR: 1092. A total of 8 ears were selected
Summer 2000	S7 ears were grown ear-to-row and self-pollinated. Final selection was completed in nursery rows 00:80587 to 00:80600. This selection consisted of bulking S8 ears.

* - inbred line 286D184C is derived from Teko Yellow (I137TN)

Statement of Stability and Uniformity

Corn inbred I512243 was coded in 1998 with final selection made in 2000. This inbred has been reproduced by self-pollination for three generations and judged to be stable. Inbred I512243 is uniform for all traits observed.

Statement of Variants

I512243 shows no variants other than what would normally be expected due to environment or that would occur for almost any character during the course of repeated sexual reproduction.

200600145

EXHIBIT B

Statement of Distinctness

Monsanto Technology ^{LLC} ~~L.L.C.~~ believes that I512243 is most similar to corn inbred SNBM, an inbred developed by DEKALB Genetics Corporation.

I512243 and SNBM differ most significantly in the following traits:

Trait	I512243	SNBM
Silk Color	Green-Yellow (2.5 GY 8/6)	Pink (2.5 R 7/6)
Leaf -Longitudinal Creases*	Many (8)	Few (2)
Ear Position	Pendent	Upright
Kernel Row Direction	Straight	Curved
Cob Color	White (Lighter than 5 Y 9/1)	Pink (5 R 6/6)

* - based on a scale of 1-9, 1 = none, 9 = many

2002

Variety	Tassel Branch Number
I512243	4.0 (Std Dev = 1.9, N= 10)
SNBM	14.1 (Std Dev = 1.6, N= 10)
P_Val	0.000
Signif.	**

2003

Variety	Tassel Branch Number
I512243	3.3 (Std Dev = 0.9, N= 10)
SNBM	13.3 (Std Dev = 2.0, N= 10)
P_Val	0.000
Signif.	**

Significance levels are indicated as: + = 10%, * = 5 %, ** = 1%

Corn variety I512243 has green-yellow silk color, a pendant ear position, straight kernel rows, a white cob, many longitudinal leaf creases and fewer tassel branches while comparative corn variety SNBM has pink silk color, an upright ear position, curved kernel rows, a pink cob, few longitudinal leaf creases and greater number of tassel branches.

EXHIBIT B
(revised)

Description of Experimental Design

The corn varieties I512243, SNBM and MO17 were grown at the Waterman, IL observation nursery in years 2002-2003. The varieties were planted in 2 row plots with 15 plants per row in each of the three years. Trait data were collected on 10 random representative plants for most traits from each 2 row plot. Data on qualitative traits are usually collected on 10 plants from each 2 row plot. For Exhibit C all data were pooled and reported as means across the years for subject variety and the standard variety with standard deviation. The varieties are randomly planted in a 4.5 acre observation nursery which is located within a larger 18 acre field. Besides the observation nursery, this field consists of a research seed increase nursery and an IP seed inventory nursery. The location of each of these individual nurseries is rotated each year to a different location within the 18 acre field. Therefore subject inbreds are not planted adjacent to comparative or standard varieties and may be located in different areas of the larger field each year, therefore being influenced by spacial differences within the field. Growing conditions within the field are not uniform as there are some slight topographical variations such as lower areas which may accumulate and retain water or higher areas which are usually drier. The field is tiled and therefore a variety maybe planted close to a tile line while a comparative variety maybe planted further away and in a low spot within the field. Temporal varieties can exist as weather conditions from year to year can vary as well as planting dates can vary from year to year based on weather conditions. Weather conditions each year can vary the maturity rate of the varieties due to either favorable or unfavorable growing conditions.

Trait variability is not observed for each variety within its own test plot-plants are usually uniform and data are collected on the "most" representative plants- variability occurs due to spacial location of the test plot for that variety from year to year and to the temporal variation of weather conditions from year to year during the 2-3 years data are collected.

Waterman Research Station
Weather Data 2002-2003

Date	Average Precip. (mm)	Ave. Monthly Temp – Max. (F°)	Ave. Monthly Temp-Min (F°)	Ave. Monthly Rel. Humid.- Max (%)	Ave. Monthly Rel. Humid – Min (%)
June 2002	5.3	81.3	60.4	90.7	47.7
July 2002	1.5	87.0	64.9	93.2	48.3
August 2002	5.7	83.1	61.0	96.0	51.8
Sept. 2002	1.5	79.4	52.6	95.0	42.7
June 2003	2.0	75.7	55.7	-	-
July 2003	6.4	82.2	62.2	-	-
August 2003	2.6	83.5	63.5	-	-
Sept 2003	2.6	72.9	52.9	-	-

United States Department of Agriculture, Agricultural Marketing Service
Science and Technology, Plant Variety Protection Office
National Agricultural Library Building, Room 400
Beltsville, MD 20705-2351

OBJECTIVE DESCRIPTION OF VARIETY
CORN (*Zea mays* L.)

Name of Applicant(s) Monsanto Technology LLC LLC		Variety Seed Source	Variety Name or Temporary Designation I512243																																											
Address (Street & No., or R.F.D. No., City, State, Zip Code and Country) 8350 Minnegan Road, Waterman, IL 60556			FOR OFFICIAL USE	PVPO Number 2006 00145																																										
Place the appropriate number that describes the varietal characters typical of this inbred variety in the spaces below. Right justify whole numbers by adding leading zeroes if necessary. Completeness should be striven for to establish an adequate variety description.																																														
<p>COLOR CHOICES (Use in conjunction with Munsell color code to describe all color choices; describe #25 and #26 in Comments section):</p> <table border="0"> <tr> <td>01=Light Green</td> <td>06=Pale Yellow</td> <td>11=Pink</td> <td>16=Pale Purple</td> <td>21=Buff</td> </tr> <tr> <td>02=Medium Green</td> <td>07=Yellow</td> <td>12=Light Red</td> <td>17=Purple</td> <td>22=Tan</td> </tr> <tr> <td>03=Dark Green</td> <td>08=Yellow-Orange</td> <td>13=Cherry Red</td> <td>18=Colorless</td> <td>23=Brown</td> </tr> <tr> <td>04=Very Dark Green</td> <td>09=Salmon</td> <td>14=Red</td> <td>19=White</td> <td>24=Bronze</td> </tr> <tr> <td>05=Green-Yellow</td> <td>10=Pink-Orange</td> <td>15=Red & White</td> <td>20=White Capped</td> <td>25=Variegated (Describe)</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>26=Other (Describe)</td> </tr> </table>					01=Light Green	06=Pale Yellow	11=Pink	16=Pale Purple	21=Buff	02=Medium Green	07=Yellow	12=Light Red	17=Purple	22=Tan	03=Dark Green	08=Yellow-Orange	13=Cherry Red	18=Colorless	23=Brown	04=Very Dark Green	09=Salmon	14=Red	19=White	24=Bronze	05=Green-Yellow	10=Pink-Orange	15=Red & White	20=White Capped	25=Variegated (Describe)					26=Other (Describe)												
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<p>STANDARD INBRED CHOICES (Use the most similar (in background and maturity) of these to make comparisons based on grow-out trial data):</p> <table border="0"> <tr> <td> <p>Yellow Dent Families:</p> <p>Family Members</p> <p>B14 CM105, A632, B64, B68</p> <p>B37 B37, B76, H84</p> <p>B73 N192, A679, B73, NC268</p> <p>C103 Mo17, Va102, Va35, A682</p> <p>Oh43 A619, MS71, H99, Va26</p> <p>WF9 W64A, A554, A654, Pa91</p> </td> <td> <p>Yellow Dent (Unrelated):</p> <p>Co109, ND246,</p> <p>Oh7, T232</p> <p>W117, W153R</p> <p>W182BN</p> <p>White Dent:</p> <p>C166, H105, Ky228</p> </td> <td> <p>Sweet Corn:</p> <p>C13, Iowa5125, P39, 2132</p> <p>Popcorn:</p> <p>SG1533, 4722, HP301, HP7211</p> <p>Pipecorn:</p> <p>Mo15W, Mo16W, Mo24W</p> </td> </tr> </table>					<p>Yellow Dent Families:</p> <p>Family Members</p> <p>B14 CM105, A632, B64, B68</p> <p>B37 B37, B76, H84</p> <p>B73 N192, A679, B73, NC268</p> <p>C103 Mo17, Va102, Va35, A682</p> <p>Oh43 A619, MS71, H99, Va26</p> <p>WF9 W64A, A554, A654, Pa91</p>	<p>Yellow Dent (Unrelated):</p> <p>Co109, ND246,</p> <p>Oh7, T232</p> <p>W117, W153R</p> <p>W182BN</p> <p>White Dent:</p> <p>C166, H105, Ky228</p>	<p>Sweet Corn:</p> <p>C13, Iowa5125, P39, 2132</p> <p>Popcorn:</p> <p>SG1533, 4722, HP301, HP7211</p> <p>Pipecorn:</p> <p>Mo15W, Mo16W, Mo24W</p>																																							
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1. TYPE: (describe intermediate types in Comments section)		Standard Inbred Name MO17																																												
2 1=Sweet 2=Dent 3=Flint 4=Flour 5=Pop 6=Ornamental 7=Pipecorn		2 Type																																												
2. REGION WHERE DEVELOPED IN THE U.S.A.:		Standard Seed Source																																												
2 1=Northwest 2=North central 3=Northeast 4=Southeast 5=South central 6=Southwest 7=Other		2 Region																																												
3. MATURITY (In Region Best Adaptability; show Heat Unit formula in "Comments" section):		<table border="0"> <tr> <td>DAYS</td> <td>HEAT UNITS</td> <td></td> </tr> <tr> <td>8 6</td> <td>1 6 6 3. 0</td> <td>From emergence to 50% of plants in silk</td> </tr> <tr> <td>8 3</td> <td>1 5 8 2. 0</td> <td>From emergence to 50% of plants in pollen</td> </tr> <tr> <td>---</td> <td>---</td> <td>From 10% to 90% pollen shed</td> </tr> <tr> <td>---</td> <td>---</td> <td>From 50% silk to optimum edible quality</td> </tr> <tr> <td>---</td> <td>---</td> <td>From 50% silk to harvest at 25% moisture</td> </tr> </table>			DAYS	HEAT UNITS		8 6	1 6 6 3. 0	From emergence to 50% of plants in silk	8 3	1 5 8 2. 0	From emergence to 50% of plants in pollen	---	---	From 10% to 90% pollen shed	---	---	From 50% silk to optimum edible quality	---	---	From 50% silk to harvest at 25% moisture																								
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Application Variety Data		Standard Inbred Data																																												

Application Variety Data			Page 2	Standard Inbred Data			
5. LEAF:			Standard Deviation	Sample Size	Mean	Standard Deviation	Sample Size
0 9 . 4	cm Width of Ear Node Leaf	0.8	30	0 0 9. 0	0.7	30	
8 2. 2	cm Length of Ear Node Leaf	5.2	30	0 6 2. 4	6.4	30	
5 . 7	Number of leaves above top ear	0.5	30	5. 6	0.4	15	
3 1. 0	degrees Leaf Angle (measure from 2nd leaf above ear at anthesis to stalk above leaf)	3.8	30	3 5. 8	7.8	30	
0 3	Leaf Color (Munsell code 5 GY 3/4)			0 2 (Munsell code 5 GY 5/10)			
3	Leaf Sheath Pubescence (Rate on scale from 1=none to 9=like peach fuzz)			2			
6	Marginal Waves (Rate on scale from 1=none to 9=many)			5			
8	Longitudinal Creases (Rate on scale from 1=none to 9=many)			8			
6. TASSEL:			Standard Deviation	Sample Size	Mean	Standard Deviation	Sample Size
3. 7	Number of Primary Lateral Branches	1.5	30	7. 1	1.1	30	
2 7. 0	Branch Angle from Central Spike	5.5	30	3 4. 6	5.2	30	
3 8. 4	cm Tassel Length (from top leaf collar to tassel tip)	3.2	30	4 7. 4	4.9	30	
7.9	Pollen Shed (Rate on scale from 0=male sterile to 9=heavy shed)			4 .3			
0 7	Anther Color (Munsell code 2.5 Y 8/10)			0 5 (Munsell code 2.5 GY 8/6)			
0 2	Glume Color (Munsell code 5 GY 4/8)			0 2 (Munsell code 5 GY 4/8)			
1	Bar Glumes (Glume Bands): 1=Absent 2=Present			1			
7a. EAR (Unhusked Data):							
0 5	Silk Color (3 days after emergence) (Munsell code 2.5 GY 8/6)			0 5 (Munsell code 2.5 GY 8/6)			
0 2	Fresh Husk Color (25 days after 50% silking) (Munsell code 5 GY 4/8)			0 2 (Munsell code 5 GY 4/8)			
2 1	Dry Husk Color (65 days after 50% Silking) (Munsell code 2.5 Y 8/4)			2 1 (Munsell code 2.5 Y 8/4)			
3	Position of Ear at Dry Husk Stage: 1=Upright 2=Horizontal 3=Pendent			1			
8	Husk Tightness (Rate on scale from 1=very loose to 9=very tight)			8			
2	Husk Extension (at harvest): 1=Short (ears exposed) 2=Medium (<8 cm) 3=Long (8-10 cm beyond ear tip) 4=Very Long (>10 cm)			3			
7b. EAR (Husked Ear Data):			Standard Deviation	Sample Size	Mean	Standard Deviation	Sample Size
1 4. 6	cm Ear Length	0.8	30	1 8. 5	0.7	30	
4 3. 2	mm Ear Diameter at mid-point	1.8	30	3 8. 0	1.6	30	
8 7. 7	gm Ear Weight	15.2	30	1 0 4.8	18.0	30	
1 7.2	Number of Kernel Rows	0.9	30	1 2. 0	0.7	15	
2	Kernel Rows: 1=Indistinct 2=Distinct			2			
1	Row Alignment: 1=Straight 2=Slightly Curved 3=Spiral			1			
9 .6	cm Shank Length	1.7	30	0 9. 8	1.9	15	
2	Ear Taper: 1=Slight 2=Average 3=Extreme			2			
Application Variety Data			Standard Inbred Data				
Note: Use chart on first page to choose color codes for color traits.							

Application Variety Data			Page 3	Standard Inbred Data			
8. KERNEL (Dried):			Standard Deviation	Sample Size	Mean	Standard Deviation	Sample Size
1 1 .2	mm Kernel Length	0.2	30	1 1.4	0.4	15	
7 .3	mm Kernel Width	0.3	30	0 9.0	0.5	15	
4 .4	mm Kernel Thickness	0.3	30	0 4.9	0.3	15	
2 8.9	% Round Kernels (Shape Grade)	6.5	500g	3 1.7	3.6	500g	
1	Aleurone Color Pattern: 1=Homozygous 2=Segregating (describe) _____			1			
1 9	Aleurone Color (Munsell code Lighter than 5 Y 9/1)			1 9	(Munsell code Lighter Than 2.5 Y 9/2)		
0 7	Hard Endosperm Color (Munsell code 2.5 Y 8/10)			0 7	(Munsell code 2.5 Y 8/10)		
3	Endosperm Type: 1=Sweet (su1) 2=Extra Sweet (sh2) 3=Normal Starch 4=High Amylose Starch 5=Waxy Starch 6=High Protein 7=High Lysine 8=Super Sweet (se) 9=High Oil 10=Other _____			0 3			
3 2.2	gm Weight per 100 Kernels (unsized sample)	4.8	1100 seeds	2 9.7	8.7	1200 seeds	
9. COB:			Standard Deviation	Sample Size	Mean	Standard Deviation	Sample Size
2 2.3	mm Cob Diameter at mid-point	0.6	30	2 2.1	0.8	15	
1 9	Cob Color (Munsell code Lighter than 5 Y 9/1)			1 4	(Munsell code 5 R 3/8)		
10. DISEASE RESISTANCE (Rate from 1 (most susceptible) to 9 (most resistant); leave blank if not tested; leave Race or Strain Options blank if polygenic):							
A. Leaf Blights, Wilts, and Local Infection Diseases							
7 Anthracnose Leaf Blight (<i>Colletotrichum graminicola</i>)				7 Anthracnose Leaf Blight			
7 Common Rust (<i>Puccinia sorghi</i>)				___ Common Rust			
___ Common Smut (<i>Ustilago maydis</i>)				___ Common Smut			
8 Eyespot (<i>Kabatiella zeae</i>)				7 Eyespot			
7 Goss's Wilt (<i>Clavibacter michiganense</i> spp. <i>nebraskense</i>)				6 Goss's Wilt			
7 Gray Leaf Spot (<i>Cercospora zeae-maydis</i>)				2 Gray Leaf Spot			
7 Helminthosporium Leaf Spot (<i>Bipolaris zeicola</i>)..... Race 2				8 Helminthosporium Leaf Spot..... Race 2			
7 Northern Leaf Blight (<i>Exserohilum turcicum</i>)..... Race 2				5 Northern Leaf Blight..... Race 2			
8 Southern Leaf Blight (<i>Bipolaris maydis</i>)..... Race O				3 Southern Leaf Blight..... Race O			
___ Southern Rust (<i>Puccinia polysora</i>)				___ Southern Rust			
7 Stewart's Wilt (<i>Erwinia stewartii</i>)				3 Stewart's Wilt			
___ Other (Specify) _____				___ Other (Specify) _____			
B. Systemic Diseases							
___ Corn Lethal Necrosis (MCMV and MDMV)				___ Corn Lethal Necrosis			
___ Head Smut (<i>Sphacelotheca reiliana</i>)				___ Head Smut			
___ Maize Chlorotic Dwarf Virus (MCDV)				___ Maize Chlorotic Dwarf Virus			
___ Maize Chlorotic Mottle Virus (MCMV)				___ Maize Chlorotic Mottle Virus			
___ Maize Dwarf Mosaic Virus (MDMV)..... Strain _____				___ Maize Dwarf Mosaic Virus..... Strain _____			
___ Sorghum Downy Mildew of Corn (<i>Peronosclerospora sorghi</i>)				___ Sorghum Downy Mildew of Corn			
___ Other (Specify) _____				___ Other (Specify) _____			
C. Stalk Rots							
___ Anthracnose Stalk Rot (<i>Colletotrichum graminicola</i>)				___ Anthracnose Stalk Rot			
___ Diplodia Stalk Rot (<i>Stenocarpella maydis</i>)				___ Diplodia Stalk Rot			
___ Fusarium Stalk Rot (<i>Fusarium moniliforme</i>)				___ Fusarium Stalk Rot			
___ Gibberella Stalk Rot (<i>Gibberella zeae</i>)				___ Gibberella Stalk Rot			
___ Other (Specify) _____				___ Other (Specify) _____			
D. Ear and Kernel Rots							
___ Aspergillus Ear and Kernel Rot (<i>Aspergillus flavus</i>)				___ Aspergillus Ear & Kernel Rot			
___ Diplodia Ear Rot (<i>Stenocarpella maydis</i>)				___ Diplodia Ear Rot			
___ Fusarium Ear and Kernel Rot (<i>Fusarium moniliforme</i>)				___ Fusarium Ear & Kernel Rot			
___ Gibberella Ear Rot (<i>Gibberella zeae</i>)				___ Gibberella Ear Rot			
___ Other (Specify) _____				___ Other (Specify) _____			
Application Variety Data				Standard Inbred Data			
Note: Use chart on first page to choose color codes for color traits.							

Application Variety Data	Page 4	Standard Inbred Data
11. INSECT RESISTANCE (Rate from 1 (most susceptible) to 9 (most resistant); leave blank if not tested):		
Standard Deviation	Sample Size	Standard Deviation Sample Size
___ Banks Grass Mite (<i>Oligonychus pratensis</i>)		___ Banks Grass Mite
Corn Earworm (<i>Helicoverpa zea</i>) ___ Leaf-Feeding ___ Silk Feeding : _____ mg larval wt. ___ Ear Damage		Corn Earworm ___ Leaf Feeding ___ Ear Damage
___ Corn Leaf Aphid (<i>Rhopalosiphum maidis</i>)		___ Corn Leaf Aphid
___ Corn Sap Beetle (<i>Carpophilus dimidiatus</i>)		___ Corn Sap Beetle
European Corn Borer (<i>Ostrinia nubilalis</i>) ___ 1st Generation (Typically Whorl Leaf Feeding) ___ 2nd Generation (Typically Leaf Sheath-Collar Feeding) ___ Stalk Tunneling : _____ cm tunneled/plant		European Corn Borer ___ 1st Generation ___ 2nd Generation
Fall Armyworm (<i>Spodoptera frugiperda</i>) ___ Leaf-Feeding ___ Silk-Feeding : _____ mg larval wt.		Fall Armyworm ___ Leaf Feeding
___ Maize Weevil (<i>Sitophilus zeamais</i>)		___ Maize Weevil
___ Northern Rootworm (<i>Diabrotica barberi</i>)		___ Northern Rootworm
___ Southern Rootworm (<i>Diabrotica undecimpunctata</i>)		___ Southern Rootworm
Southwestern Corn Borer (<i>Diatraea grandiosella</i>) ___ Leaf Feeding ___ Stalk Tunneling : _____ cm tunneled/plant		Southwestern Corn Borer ___ Leaf Feeding
___ Two-spotted Spider Mite (<i>Tetranychus urticae</i>)		___ Two-spotted Spider Mite
___ Western Rootworm (<i>Diabrotica virgifera virgifera</i>)		___ Western Rootworm
___ Other (Specify) _____		___ Other (Specify) _____
12. AGRONOMIC TRAITS: 6 Stay Green (at 65 days after anthesis) (Rate on a scale from 1=worst to 9=excellent.) 0 0 0 % Dropped Ears (at 65 days after anthesis) 0 0 0 % Pre-anthesis Brittle Snapping 0 0 0 % Pre-anthesis Root Lodging 0 0 0 % Post-anthesis Root Lodging (at 65 days after anthesis) _____ Kg/ha Yield of Inbred Per Se (at 12-13% grain moisture)		2 Stay Green 0 0 0 % Dropped ears 0 0 0 % Pre-anthesis Brittle Snapping 0 0 0 % Pre-anthesis Root Lodging 0 0 0 % Post-anthesis Root Lodging _____ Yield
13. MOLECULAR MARKERS: (0=data unavailable; 1=data available but not supplied; 2=data supplied)		
1 Isozymes	0 RFLP's	0 RAPD's ___ Other (Specify) _____
REFERENCES: Butler, D.R. 1954. A System for the Classification of Corn Inbred Lines. PhD Thesis, Ohio State University. Emerson, R.A., G.W. Beadle, and A.C. Fraser. 1935. A Summary of Linkage Studies in Maize. Cornell A.E.S., Mem. 180. Farr, D.F., G.F. Bills, G.P. Chamuris, A.Y. Rossman. 1989. Fungi on Plant and Plant Products in the United States. The American Phytopathological Society, St. Paul, MN. Inglett, G.E. (Ed.) 1970. Corn: Culture, Processing, Products. Avi Publishing Company, Westport, CT. Jugenheimer, R.W. 1976. Corn: Improvement, Seed Production, and Uses. John Wiley & Sons, New York. McGee, D.C. 1988. Maize Diseases. APS Press, St. Paul, MN. 150 pp. Munsell Color Chart for Plant Tissues. Macbeth. P.O. Box 230. Newburgh, N.Y. 12551-0230 The Mutants of Maize. 1968. Crop Science Society of America. Madison, WI. Shurtleff, M.C. 1980. Compendium of Corn Diseases. APS Press, St. Paul, MN. 105 pp. Sprague, G.F., and J.W. Dudley (Editors). 1988. Corn and Corn Improvement, Third Edition. Agronomy Monograph 18. ASA, CSSA, SSSA, Madison, WI. Stringfield, G.H. Maize Inbred Lines of Ohio. Ohio A.E.S., Bul. 831. 1959. U.S. Department of Agriculture. 1936, 1937. Yearbook.		
COMMENTS (e.g. state how heat units were calculated, standard inbred seed source, and/or where data was collected. Continue in Exhibit D): <div style="border: 1px solid black; padding: 10px; margin-top: 10px;"> Heat Unit Calculation: $GDU = \frac{\text{Daily Max Temp } (<=86^{\circ}\text{F}) + \text{Daily Min Temp } (>=50^{\circ}\text{F})}{2} - 50^{\circ}\text{F}$ </div>		
Supplemental data obtained from 2005 seed inventory and production parent test.		

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). The information is held confidential until the certificate is issued (7 U.S.C. 2426).

EXHIBIT E
STATEMENT OF THE BASIS OF OWNERSHIP

1. NAME OF APPLICANT(S) Monsanto Technology L.L.C. LLC	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER	3. VARIETY NAME 1512243
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country) 800 N. Lindbergh Blvd. Creve Couer, MO 63167 U.S.A.	5. TELEPHONE (Include area code) (815) 758-9281	6. FAX (Include area code) (815) 758-3117
7. PVPO NUMBER 2006 00 145		

8. Does the applicant own all rights to the variety? Mark an "X" in the appropriate block. If no, please explain. ☒ YES ☐ NO9. Is the applicant (individual or company) a U.S. national or a U.S. based company? If no, give name of country. ☒ YES ☐ NO10. Is the applicant the original owner? ☒ YES ☐ NO If no, please answer one of the following:

a. If the original rights to variety were owned by individual(s), is (are) the original owner(s) a U.S. National(s)?

☐ YES ☐ NO If no, give name of country

b. If the original rights to variety were owned by a company(ies), is (are) the original owner(s) a U.S. based company?

☐ YES ☐ NO If no, give name of country

11. Additional explanation on ownership (Trace ownership from original breeder to current owner. Use the reverse for extra space if needed):

Corn Variety 1512243 was originated and developed by a breeder employed by Monsanto Technology ~~L.L.C.~~ **LLC**. By agreement between Monsanto Technology ~~L.L.C.~~ **LLC** and the breeder, all rights to any invention, discovery or development are assigned to Monsanto Technology ~~L.L.C.~~ **LLC**. No rights to such invention, discovery or development are retained by the breeder.

PLEASE NOTE:

Plant variety protection can only be afforded to the owners (not licensees) who meet the following criteria:

1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.
2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
3. If the applicant is an owner who is not the original owner, both the original owner and the applicant must meet one of the above criteria.

The original breeder/owner may be the individual or company who directed the final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definitions.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 0.1 hour per response, including the time for reviewing the instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, D.C. 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

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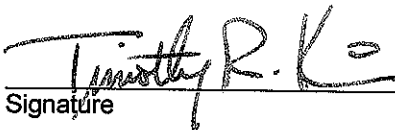
To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call 202-720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY
PLANT VARIETY PROTECTION OFFICE
BELTSVILLE, MD 20705

EXHIBIT F
DECLARATION REGARDING DEPOSIT

NAME OF OWNER (S) Monsanto Technology LLC	ADDRESS (Street and No. or RD No., City, State, and Zip Code and Country) 8350 Minnegan Road Waterman, IL 60556 U.S.A.	TEMPORARY OR EXPERIMENTAL DESIGNATION
NAME OF OWNER REPRESENTATIVE (S) Timothy R. Kain	ADDRESS (Street and No. or RD No., City, State, and Zip Code and Country) 8350 Minnegan Road Waterman, IL 60556 U.S.A.	VARIETY NAME I512243 FOR OFFICIAL USE ONLY PVPO NUMBER 2006 00145

I do hereby declare that during the life of the certificate a viable sample of propagating material of the subject variety will be deposited, and replenished as needed periodically, in a public repository in the United States in accordance with the regulations established by the Plant Variety Protection Office.


Signature


Date

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